## CUSTOMER PROFILE

**NAME:**
Gen. Mariusz Zaruski Primary School
No. 12 in Gdynia
**INDUSTRY:** Education
**USERS:** Between 30 and 100
**LOCATION:** Gdynia, Poland
**YEAR OF PROJECT:** 2019

Gen. Mariusz Zaruski Primary School No. 12 in Gdynia is an educational institution attended by 560 students, who study in 25 classes. The school staff consists of 80 teachers and 28 administrative employees and attendants. The school occupies a two-storey building, which includes, among others, a swimming pool, three computer labs, a common room and a library.



## CHALLENGE

Constant Internet access in classrooms is essential in teachers' work and provides countless possibilities for using contemporary teaching methods. Teachers are eager to employ interactive materials and boards, as well as modern e-learning platforms during their lessons.

The school has gained access to the optic fiber Internet with speeds amounting to 600/60Mbps. The introduction of an electronic class register at an earlier stage meant that the facility had already been equipped with networking cables. There were 2 LAN ports in each of the 28 classrooms.

The aim of the implementation was to expand the existing network infrastructure with the WiFi network and to provide wireless Internet access for 30 laptops and 25 tablets, necessary for conducting interactive classes with such platforms as Kahoot! and Nuadu. The scalability of the solution was an important requirement - the plan was to expand the wireless network at a later stage to make it accessible for all teachers and students, as well as useful in terms of operating projectors and interactive boards.

## SOLUTION

It was decided that TP-Link Omada EAP225 Access Points will serve the purpose best. "Excellent pre-sales and after-sales support provided by the company was, among other things, crucial for the final decision.
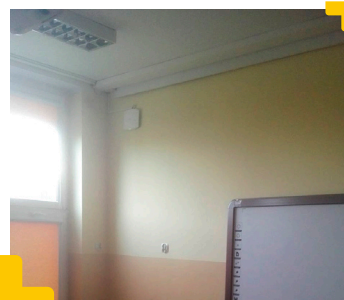
TP-Link prepared a free-of-charge simulation of the WiFi's coverage in the building, along with the coverage maps, a list of equipment and a detailed configuration of devices. As a result, it was possible to implement the solution without the need for third-party installation services, which significantly reduced the overall costs. TP-Link devices have a very good price-performance ratio as well", said Krzysztof Wachowiak, computer network and e-register administrator in Primary School No. 12 in Gdynia.
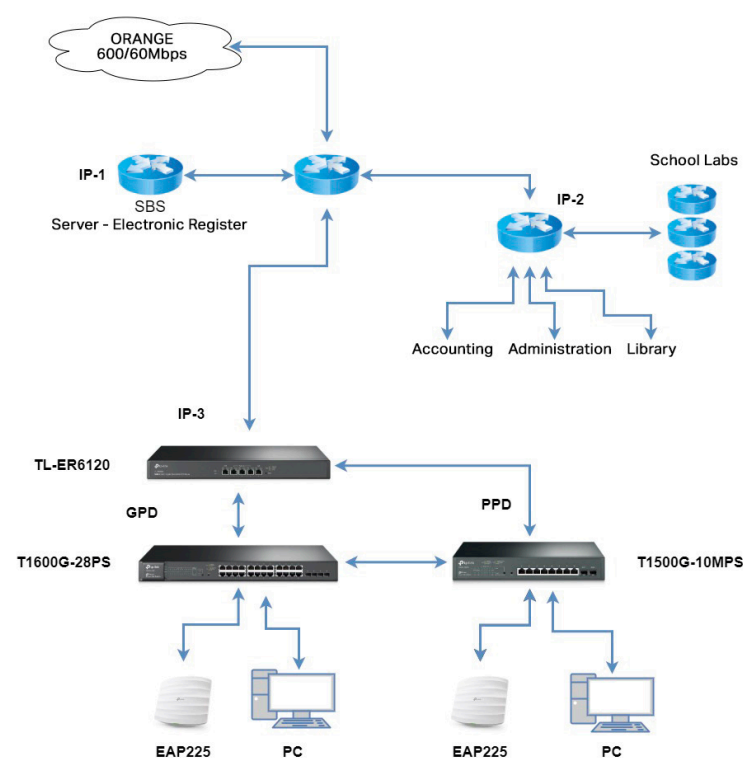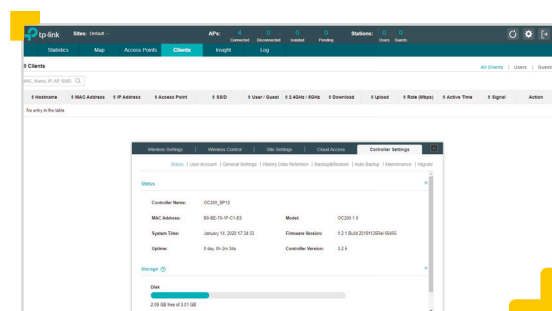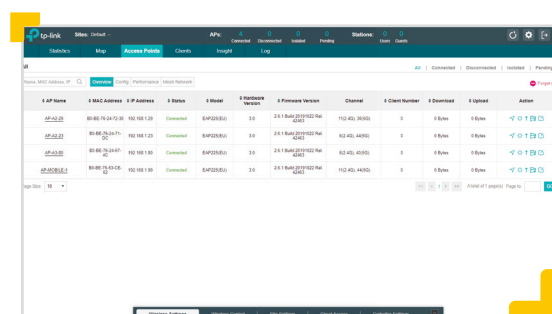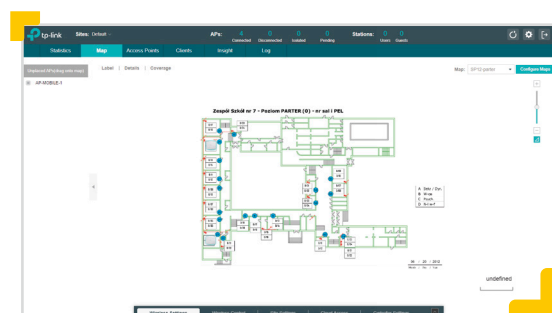






TP-Link TL-ER6120 router is a gateway to the school's wireless network. Access points are connected to the T1600G-28PS and T1500G-10MPS Switches, from which network cables are distributed to all classrooms. They are managed with OC200 Controller, which allows for the remote cloud control of all access points - also via dedicated mobile app. Equipped with gigabit Ethernet ports, the devices provide performance adequate for the school's link capacity, while PoE support allows for the quick deployment of access points and reduces the essential wiring.

In the first phase, four TP-Link EAP225 Access Points were implemented. Three of them are permanently installed in classrooms, where laptops and tablets are usually used during classes. Autodetection function and the availability of an intutive mobile app for management make it possible for the fourth access point to act as a mobile device and to be transferred from one classroom to another, as convenient.



## ❤ RESULTS

Deployment of the WiFi network created new opportunites for teachers in terms of using multimedia content during classes. Tablets and gamification has become an integral part of the teaching process at school. "Connection is stable, contents load smoothly and the mobile app makes it easy to switch the mobile access point. We plan to expand the deployment in 2020 and to install access points in another 10 classrooms in order to make WiFi available to all teachers and students", summarizes the project Krzysztof Wachowiak from the Primary School No. 12 in Gdynia.